

LAB 8

Observations

	Functions	Tolerance	No. of Iterations	Root
1	$83x + 11y - 4z = 95$ $7x + 52y + 13z = 104$ $3x + 8y + 29z = 71$	0.01	1	X=1.1446 Y=2.0000 Z=2.4483
		0.001	5	X=1.0587 Y=1.3718 Z=1.9655
		0.0001	15	X=1.0579 Y=1.3672 Z=1.9617
2	$8x - 3y + 2z = 45$ $4x + 11y - z = 71$ $6x + 3y + 12z = 35$	0.01	5	X=7.3916 Y=3.5663 Z=-1.6855
		0.001	10	X=7.4004 Y=3.6099 Z=-1.6855
		0.0001	15	X=7.4004 Y=3.6102 Z=-1.6861
3	$18x - 3y + z = 45$ $14x + 11y - 12z = 71$ $6x + 3y + 12z = 35$	0.01	3	X=7.7552 Y=3.6569 Z=-1.9100
		0.001	7	X=7.3977 Y=3.6177 Z=-1.6786
		0.0001	11	X=7.4003 Y=3.6103 Z=-1.6860

Conclusion :